



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/621,054	07/21/2000	Tatsuya Suzuki	500.36322CX1	5518

20457 7590 05/26/2005

ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

EXAMINER

BORISSOV, IGOR N

ART UNIT	PAPER NUMBER
----------	--------------

3639

10

DATE MAILED: 05/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/621,054

Applicant(s)

SUZUKI ET AL.

Examiner

Igor Borissov

Art Unit

3629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

Response to Amendment

Amendment received on 7/9/2003 is acknowledged and entered. Claims 1, 4 and 7 have been amended. Claims 1-8 are currently pending in the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 5 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Scheidt et al. (US 5,654,902).

Scheidt et al. (Scheidt) teaches a method and system for recyclable components, comprising,

Claims 1, 4 and 7.

Reading out from a manufactured article information regarding instruction of disassembly of a manufactured article (treatment of component parts of the article), said information is contained in memory unit (database), (C. 4, L. 66 – C. 5, L. 4; C. 3, L. 6-11), and specific properties of the component parts (C. 3, L. 54-55), disassembling said components and determining, based on said information, how to treat said disassembled components, wherein, if it is determined that said components are qualified for reuse, sending said qualified components for refurbishing, and if it is determined that said components include a high content of pure plastics or precious materials, sending (altering treatment process) said components to a dedicated recovery lines (C. 5, L. 12-21).

Claims 2 and 5. Said method and system wherein a decision whether to carry out recycle or not of said components of said manufactured article is based on said information read from said manufactured article (C. 3, L. 6-11).

Claim 8. Said method wherein said information read from said manufactured article includes information regarding structural arrangement of said components of said manufactured article (C. 6, L. 6-11).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scheidt in view of Englert (US 5,560,100).

Claims 3 and 6.

Scheidt teaches all the limitations of Claims 3 and 6, except specifically teaching that the determination whether to carry out recycle or not is based on utilization a first image information while treating the component and second image information when said parts are in an original state.

Englert teaches a method and system for automatic disassembly of circuit boards, wherein circuit boards to be disassembled are scanned with a laser to obtain an image of mounted electronic components for recognizing type of the electronic component (C. 5, L. 45-48), thereby indicating comparing the obtained image with an "original" image.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Scheidt to include that the determination whether to carry out recycle or not is based on comparison a first image information while treating the

Art Unit: 3629

component and second image information when said parts are in an original state, as indicated in Englert, because it would advantageously allow to automate the disassembling process.

Examiner's Note

Examiner has cited particular columns and line numbers or figures in the references as applied to the claims for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (see form PTO-892).

Any inquiry concerning this communication should be directed to Igor Borissov at telephone number (703) 305-4649 before April 13, 2005, and (571) 272-6801 after that date.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist before April 13, 2005, whose telephone number is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John Weiss, can be reached at (703) 308-2702 before April 13, 2005, and (571) 272-6812 after that date.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington D.C. 20231

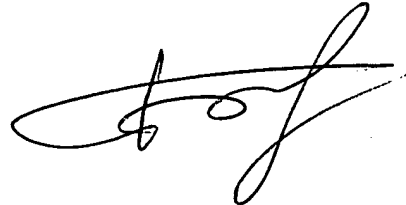
Art Unit: 3629

or faxed to:

(703) 872-9306 [Official communications; including After Final
communications labeled "Box AF"]

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal
Drive, Arlington, VA, 7th floor receptionist.

Igor Borissov
Patent Examiner
Art Unit 3629

A handwritten signature in black ink, appearing to read 'Igor Borissov', with a large, stylized flourish extending from the end.

IB

3/15/2005